

Patent Abstracts of Japan

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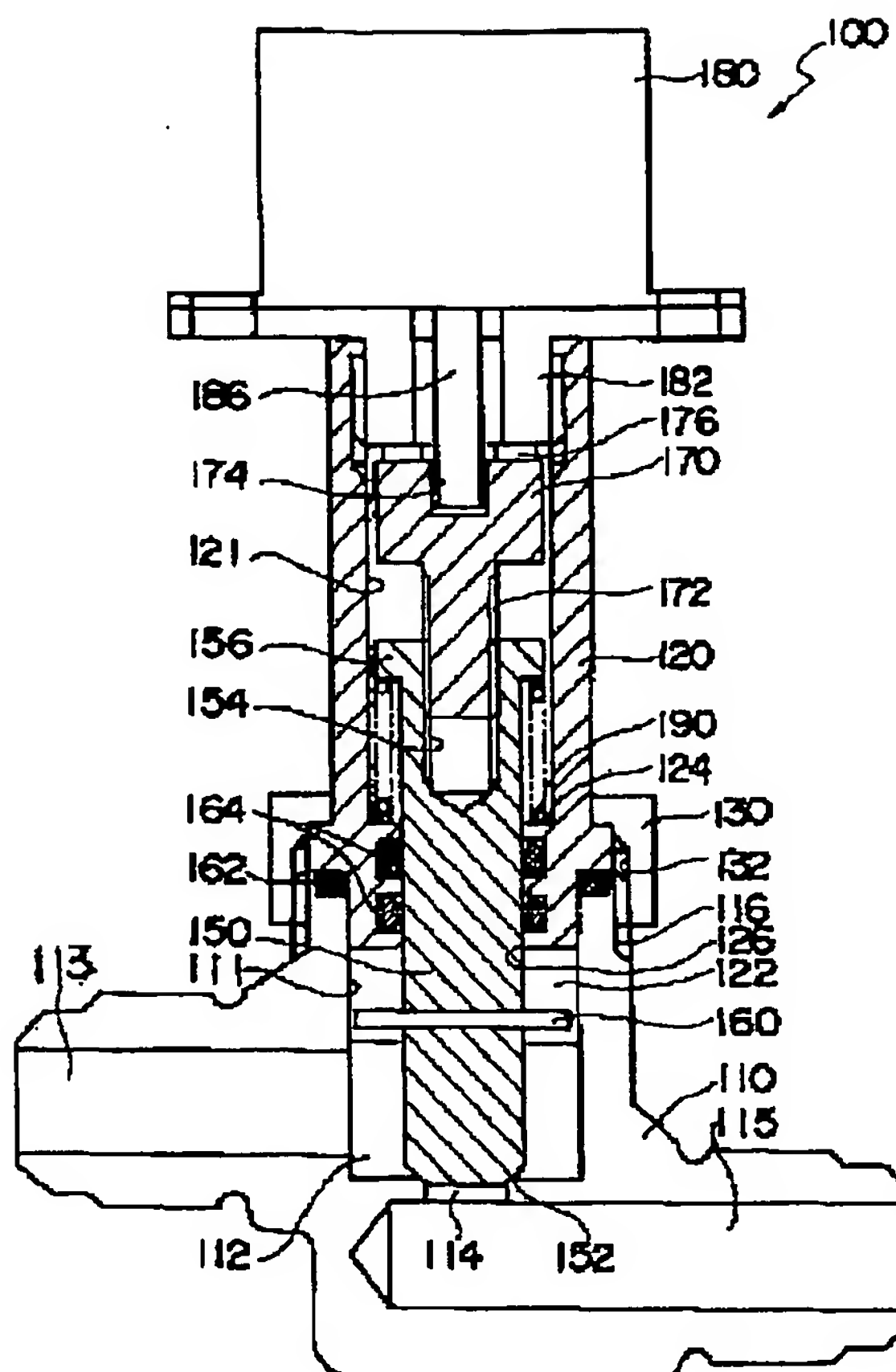
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TITLE : MOTOR-OPERATED VALVE



ABSTRACT : PURPOSE: To simplify arrangement of a spring to remove a backlash of a screw on an motor-operated valve to open and close a valve through a screw mechanism by a motor.

CONSTITUTION: A valve body 110 of an motor-operated valve 100 has a valve chest 112 and an orifice 114. A valve holder 120 fastened on a valve main body supports a stem 150 free to slide. A driver 170 having a male screw 172 to be screwed in a female screw 154 of the stem 150 is furnished with a square hole 174, etc., and it is rotationally driven by a drive shaft 186 of a stepping motor 180. Rotation of the driver 170 is converted to driving in the shaft direction by a screw, and the stem 150 is elevated up and down. A spring 190 arranged between the valve holder 120 and the stem 150 energizes the stem 150 toward the driver 170 and removes a backlash of the screw.

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